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RAW SEQUENCE LISTING

DATE: 10/10/2002

PATENT APPLICATION: US/10/057,609B

TIME: 15:50:16

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3 <110> APPLICANT: KARNOSKY, DAVID F.
 4 PODILA, GOPI
 5 XIANG, BIXIA
 7 <120> TITLE OF INVENTION: TRANSGENIC TREES HAVING INCREASED RESISTANCE TO
 8 IMIDAZOLINONE HERBICIDES
 10 <130> FILE REFERENCE: 16313-0093
 12 <140> CURRENT APPLICATION NUMBER: 10/057,609B
 C--> 13 <141> CURRENT FILING DATE: 2002-10-02
 15 <150> PRIOR APPLICATION NUMBER: 60/264,216
 16 <151> PRIOR FILING DATE: 2001-01-25
 18 <160> NUMBER OF SEQ ID NOS: 5
 20 <170> SOFTWARE: PatentIn Ver. 2.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 2364
 24 <212> TYPE: DNA
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31 cccgagggca ttttcgtaat ccaacataaa acccttaaac ttcaagtctc atttttaaac 240
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125 35 40 45
127 Ser Arg Arg Arg Gly Ile Lys Ser Ser Ser Pro Ser Ser Ile Ser Ala
128 50 55 60
130 Val Leu Asn Thr Thr Thr Asn Val Thr Thr Thr Pro Ser Pro Thr Lys
131 65 70 75 80
133 Pro Thr Lys Pro Glu Thr Phe Ile Ser Arg Phe Ala Pro Asp Gln Pro
134 85 90 95
136 Arg Lys Gly Ala Asp Ile Leu Val Glu Ala Leu Glu Arg Gln Gly Val
137 100 105 110
139 Glu Thr Val Phe Ala Tyr Pro Gly Gly Ala Ser Met Glu Ile His Gln
140 115 120 125
142 Ala Leu Thr Arg Ser Ser Ser Ile Arg Asn Val Leu Pro Arg His Glu
143 130 135 140
145 Gln Gly Gly Val Phe Ala Ala Glu Gly Tyr Ala Arg Ser Ser Gly Lys
146 145 150 155 160
148 Pro Gly Ile Cys Ile Ala Thr Ser Gly Pro Gly Ala Thr Asn Leu Val
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151 Ser Gly Leu Ala Asp Ala Leu Leu Asp Ser Val Pro Leu Val Ala Ile
152 180 185 190
154 Thr Gly Gln Val Pro Arg Arg Met Ile Gly Thr Asp Ala Phe Gln Glu
155 195 200 205
157 Thr Pro Ile Val Glu Val Thr Arg Ser Ile Thr Lys His Asn Tyr Leu
158 210 215 220
160 Val Met Asp Val Glu Asp Ile Pro Arg Ile Ile Glu Glu Ala Phe Phe
161 225 230 235 240
163 Leu Ala Thr Ser Gly Arg Pro Gly Pro Val Leu Val Asp Val Pro Lys
164 245 250 255
166 Asp Ile Gln Gln Gln Leu Ala Ile Pro Asn Trp Glu Gln Ala Met Arg
167 260 265 270
169 Leu Pro Gly Tyr Met Ser Arg Met Pro Lys Pro Pro Glu Asp Ser His
170 275 280 285
172 Leu Glu Gln Ile Val Arg Leu Ile Ser Glu Ser Lys Lys Pro Val Leu
173 290 295 300
175 Tyr Val Gly Gly Gly Cys Leu Asn Ser Ser Asp Glu Leu Gly Arg Phe
176 305 310 315 320

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184 Gly Thr Val Tyr Ala Asn Tyr Ala Val Glu His Ser Asp Leu Leu Leu
185          355          360          365
187 Ala Phe Gly Val Arg Phe Asp Arg Val Thr Gly Lys Leu Glu Ala
188          370          375          380
190 Phe Ala Ser Arg Ala Lys Ile Val His Ile Asp Ile Asp Ser Ala Glu
191 385          390          395          400
193 Ile Gly Lys Asn Lys Thr Pro His Val Ser Val Cys Gly Asp Val Lys
194          405          410          415
196 Leu Ala Leu Gln Gly Met Asn Lys Val Leu Glu Asn Arg Ala Glu Glu
197          420          425          430
199 Leu Lys Leu Asp Phe Gly Val Trp Arg Asn Glu Leu Asn Val Gln Lys
200          435          440          445
202 Gln Lys Phe Pro Leu Ser Phe Lys Thr Phe Gly Glu Ala Ile Pro Pro
203          450          455          460
205 Gln Tyr Ala Ile Lys Val Leu Asp Glu Leu Thr Asp Gly Lys Ala Ile
206 465          470          475          480
208 Ile Ser Thr Gly Val Gly Gln His Gln Met Trp Ala Ala Gln Phe Tyr
209          485          490          495
211 Asn Tyr Lys Lys Pro Arg Gln Trp Leu Ser Ser Gly Gly Leu Gly Ala
212          500          505          510
214 Met Gly Phe Gly Leu Pro Ala Ala Ile Gly Ala Ser Val Ala Asn Pro
215          515          520          525
217 Asp Ala Ile Val Val Asp Ile Asp Gly Asp Gly Ser Phe Ile Met Asn
218          530          535          540
220 Val Gln Glu Leu Ala Thr Ile Arg Val Glu Asn Leu Pro Val Lys Val
221 545          550          555          560
223 Leu Leu Leu Asn Asn Gln His Leu Gly Met Val Met Gln Trp Glu Asp
224          565          570          575
226 Arg Phe Tyr Lys Ala Asn Arg Ala His Thr Phe Leu Gly Asp Pro Ala
227          580          585          590
229 Gln Glu Asp Glu Ile Phe Pro Asn Met Leu Leu Phe Ala Ala Ala Cys
230          595          600          605
232 Gly Ile Pro Ala Ala Arg Val Thr Lys Lys Ala Asp Leu Arg Glu Ala
233          610          615          620
235 Ile Gln Thr Met Leu Asp Thr Pro Gly Pro Tyr Leu Leu Asp Val Ile
236 625          630          635          640
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VERIFICATION SUMMARY

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